

Application Serial No.: 09/977,426
Reply to Office Action dated December 3, 2004, and
Advisory Action dated March 11, 2005

IN THE CLAIMS

Please amend the claims as follows:

1.-9. (Canceled)

10. (New) A two-block heat exchanger including plate shaped refrigerant distribution parts comprising two overlapped plates that have been drawing processed and between which two separate refrigerant paths are formed, said distribution parts being alternatively layered with a refrigerant fin, at least one opening that opens into said refrigerant paths being respectively formed in each two plates of said refrigerant distribution parts, wherein:

said opening is provided at both respective ends of said refrigerant paths forming thereby, for each of said refrigerant paths of each of said distribution part, a refrigerant entrance and a refrigerant exit, a continuous refrigerant circulation space being formed by abutting said refrigerant entrances at the entrance side of respective refrigerant paths and a continuous refrigerant circulation space being formed by abutting said refrigerant exits at the exit side of respective refrigerant paths, and

one end of each of said refrigerant circulating spaces is closed off and the other end is opened, the open end of said refrigerant circulation space at the exit side of said one refrigerant path being connected to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

11. (New) The heat exchanger according to claim 10, further comprising, in at least one of said refrigerant circulation spaces at the entrance side of said refrigerant paths, a refrigerant distribution means that adjusts the amount of refrigerant supplied to said

refrigerant path.

12. (New) The heat exchanger according to claim 11, wherein said refrigerant distribution means is formed by a baffle plate formed at the end of at least one of said two plates around said openings in order to prevent that all the refrigerant present in the refrigerant entrance positioned upstream said baffle plate flows into the refrigerant entrance positioned downstream said baffle plate.

13. (New) The heat exchanger according to claim 12, wherein said refrigerant distribution means is further formed by the fact that each of said openings of said baffle plates is larger than the corresponding opening of the adjacent baffle plates in the direction of flow of the refrigerant and by the fact that each of said openings of said baffle plates is disposed so as not to completely overlap the corresponding opening of the adjacent baffle plates.

14. (New) The heat exchanger according to claim 13, wherein said openings of said baffle plates are concentrically aligned.

15. (New) The heat exchanger according to claim 10, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant exit of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

16. (New) The heat exchanger according to claim 11, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant exit of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant

circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

17. (New) The heat exchanger according to claim 12, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant exit of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

18. (New) The heat exchanger according to claim 13, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant exit of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

19. (New) The heat exchanger according to claim 14, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant exit of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

20. (New) The heat exchanger according to claim 10, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant entrance of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

21. (New) The heat exchanger according to claim 11, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant entrance of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

22. (New) The heat exchanger according to claim 12, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant entrance of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

23. (New) The heat exchanger according to claim 13, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant entrance of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.

24. (New) The heat exchanger according to claim 14, wherein the refrigerant entrance of said one refrigerant path is provided adjacent to the refrigerant entrance of said other refrigerant path and wherein a communicating path connects said open end of said refrigerant circulation space at the exit side of said one refrigerant path to the open end of said refrigerant circulation space at the entrance side of said other refrigerant path.